

Fit ID: NO10913	From: KMCF	To: KSAV
Fit No.: 01-53	Blk In: 0211Z	ATA: 0204Z
ETD: 1730Z	Blk Out: 1727Z	ATD: 1739Z
ETE: 1730Z	Blk Time: 8:44³⁸ (8.7)	Fit Time: 8:25 (8.4)
Sponsor Org: NHL	Program: HUER SURV.	Purpose: FLY TD#8 IN Gulf of Mexico

AOC Personnel

AC: FINKE ✓	Sys Eng: McNAMARA
CP: YATES ✓ POSTON	Data Sys: HORN BROOK
Nav:	Radar:
FE: KITSON / REDACTED	GPS/BT: LINO
Avionics:	Cid Phys:
FD: DAMIANO ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
ABERSON, S ✓	HAPS	NRD
REDACTED ✓	HAPS	NRD
PARRISH, J ✓	PM	AOC
DUNION, J ✓	HAPS	NRD

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #)

Bal DPR, DPL
1820Z-1825Z

NOVA 0408A GABRIELLE

1657 26
22
29.84

AF fix 1825Z
25° 21'
84° 24' 44" E
1000mb

PROJ 106 FLT 1706

220
1339
29

U.S. Dept. of Commerce/NOAA Aircraft Operations Center

ACWF-2

Flt ID: **N010913** Time Off: **1739Z** Time On: **0204Z**

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	1011.0	29.88 ^{18.78}	1013.6	29.99

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes		
Radar Tapes		
Cloud Physics Tapes		0153Z 29 3.2
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	30	5 bad
MESSAGES	30	Retrans: 4

Video					Remarks
	Forward	Left Side	Right Side	Down	
Time On					
Time Off					
Rate					

Remarks

3208
8112

0153Z TURB DURING DESCENT

Flight ID: NO10913

Page 1 of

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

Form 413-50

Form 413-50														
Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	AT2 T _a	DPEC T _d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
175500	2853	8121	44	43	215	5	-13.9	-17.9	6925	7283	—	409.2	157.1	IN CLD
180600	2956	8011	44	42	232	15	-37.3	-42.8	10295	10340	—	267.6	125.2	ABV CLD
181704	3049	7859	151	160	243	29	-59.9	-67.9	12378	12913	—	179.0	85.5	(48) DROP
183000	2921	7847	174	179	249	30	-61.0	-62.2	12491	13074	—	175.8	89.9	IN CLD
183845	2819	7840	174	178	255	24	-60.6	-64.5	12493	13094	—	175.7	89.4	(19) DROP
185100	2651	7820	173	176	271	15	-60.3	-63.4	12491	13107	—	175.9	84.5	IN TOP OF CLD
190039	2540	7819	174	175	296	15	-60.3	-64.6	12490	13109	—	176.0	84.4	(13) DROP
192145	2303	7807	241	245	330	10	-62.1	-67.2	12779	13414	—	167.7	84.9	(15) DROP
193918	2315	8015	277	280	317	25	-64.6	-68.6	13069	13712	—	159.9	79.7	(20) DROP
195801	2330	8220	268	267	302	18	-63.8	-65.9	13069	13712	—	159.8	78.5	(17) DROP
200400	2322	8315	259	259	278	12	-63.7	-63.8	13068	13227	—	160.0	77.5	INCLD ^{ovr} BAND
201848	2256	8504	208	205	21	7	-63.1	-68.8	13068	13727	—	159.9	81.3	(41) DROP
203020	2132	8500	120	115	22	10	-63.8	-67.9	13070	13721	—	160.0	81.1	(46) DROP
203300	2130	8440	90	85	49	14	-66.6	-69.1	13356	14014	—	152.5	77.9	IN THN CLD
205232	2124	8212	157	156	3	20	-65.4	-72.6	13352	14005	—	152.7	77.1	(33) DROP
210748	1932	8235	241	242	45	10	-65.3	-73.8	13351	14008	—	152.7	77.7	(33) DROP
213044	1934	8530	312	314	357	14	-65.7	-71.8	13352	14019	—	152.7	77.6	NO W DROP —
213255	1946	8538	335	335	357	13	-66.2	-72.2	13351	14018	—	152.6	77.4	(24) DROP
213800	2019	8554	335	335	1	13	-66.0	-70.0	13347	14010	—	152.7	77.0	IN THN CLD
214931	2130	8630	338	339	340	11	-66.7	-71.1	13352	14016	—	152.6	76.1	(17) DROP
220244	2257	8702	300	298	284	6	-65.4	-70.5	13348	14016	—	152.4	77.0	BAD ¹⁷ DROP —
220618	2300	8730	269	269	272	4	-66.8	-71.5	13531	14214	—	147.2	74.0	(20) DROP
222152	2300	8930	270	269	87	0	-66.8	-72.2	13630	14321	—	145.2	73.1	(23) DROP
224041	2305	9157	334	336	58	6	-66.4	-74.3	13629	14294	—	145.3	72.8	NO W DROP —
224317	2322	9200	0	1	64	6	-66.3	-74.8	13632	14300	—	145.3	73.0	(25) DROP
230254	2540	9200	0	0	17	10	-66.2	-76.8	13626	14313	—	145.3	73.4	(26) DROP
232537	2810	9140	61	55	347	17	-65.7	-77.2	13626	14317	—	145.1	73.2	(40) DROP
233922	2851	9001	153	153	333	13	-65.5	-77.3	13620	14305	—	145.2	73.9	(29) DROP
235210	2715	9000	180	179	3	6	-65.6	-76.3	13617	14308	—	145.3	72.4	(22) DROP
000612	2532	8954	121	117	44	7	-67.1	-77.5	13628	14308	—	145.3	72.5	(32) DROP
002038	2535	8803	34	29	346	12	-66.6	-78.5	13629	14307	—	145.3	72.7	(30) DROP
003515	2715	8800	1	357	329	19	-65.12	-77.9	13634	14311	—	146.6	73.81	NO LD DROP —
005705	2728	8800	0	357	324	21	-65.8	-77.7	13631	14304	—	145.3	72.7	(41) DROP
005046	2900	8956	34	28	331	22	-63.6	-76.5	13629	14283	—	145.3	71.6	(46) DROP
00512	2956	8617	103	107	328	15	-62.5	-75.6	13635	14260	—	145.2	72.6	(27) DROP
0148	2859	8425	71	66	287	12	-63.9	-76.0	13624	14278	—	147.0	72.0	NO W DROP —
014908	8413	39	35	280	15	-63.6	-76.4	13630	14271	—	145.3	72.6	(24) DROP	

N49RF AVAPS DropSonde Log

N49RF Project: Hurricane 2001

Flight ID 010913n

Mission: TD #8
Gabrielly

Flight #: 1

System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	003 515 075	1	1817	0	48	R		✓
2	003 515 074	1	1838	0.5	19	R		✓
3	003 475 029	1	1900	0	13	R		✓
4	003 515 043	1	1921	0.4	18	R		✓
5	003 475 108	2	1939	0	20	R		✓
6	003 475 023	1	1958	0	17	R		✓
7	003 115 227	1	2018	0.6	41	R	Intermittent Winds	✓
8	003 475 001	2	2030	0	46	R		✓
9	003 248 000	1	2052	0	33	R		✓
10	003 515 042	2	2107	0	33	RJM		✓
11	003 515 046	1	2130	0.5	—	RJM	NO SATELLITES, NO WINDS	
12	003 115 225	2	2133	0.7	24	RJM	BACK UP	✓
13	003 515 081	3	2149	0	17	RJM		✓
14	003 515 044	1	2202	0	17	RJM	NO TEMP, HUM, GEO ALT	
15	003 135 153	2	2206	0	20	RJM	BACK UP INT. WINDS	✓
16	003 338 153	3	2221	0	23	RJM		✓
17	003 115 231	1	2240	0	—	RJM	BAD TELEMETRY	
18	003 115 090	2	2243	0.5	25	RJM	BACK-UP	✓
19	003 475 035	5	2302	0	26	DL		✓
20	003 515 087	5	2325	0	40	DL		✓
21	003 515 061	6	2339	0	29	DL	BAD WINDS	
22	003 475 120	5	2352	0	22	DL		✓
23	003 475 049	6	0006	0	32	DL		✓
24	003 148 192	5	0020	0.5	30	DL		✓
25	003 825 239	6	0035	0.6	—	DL	NO LAUNCH DETECT	
26	003 148 190	7	0037	0.7	41	DL		✓
27	003 475 100	5	0050	0	46	DL		✓
28	003 515 080	6	0105	0.5	27	DL		✓
29	003 825 280	5	0119	0	—	DL	NO WINDS	
30	003 838 011	7	0121	0	24	DL		✓
31								
32								
33								

A VAPSDATA 010913n

D 20010913-224318

G4 Hurricane Surveillance

N010913 TS Gabrielle (SE Gulf of Mexico)

<u>DATA TYPE</u>	<u>SENSOR or OPTION</u>
INE	VEW_PITR, VNS_PITR
Accelerometer	ACINS_PITR
Temperature Probe	AT2
Altitude (for vertical wind)	PALT
Static Pressure	PS1M
Dynamic Pressure	QC1M
Dewpoint Probe	DPRC

Notes:

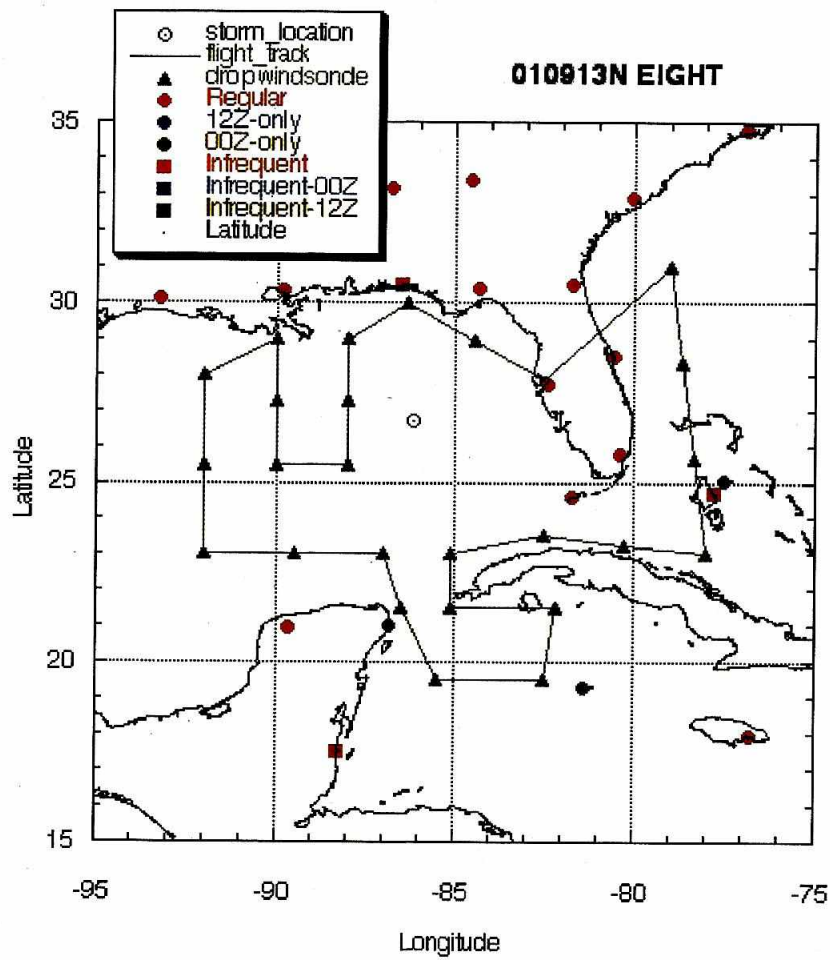
There were no data gaps.

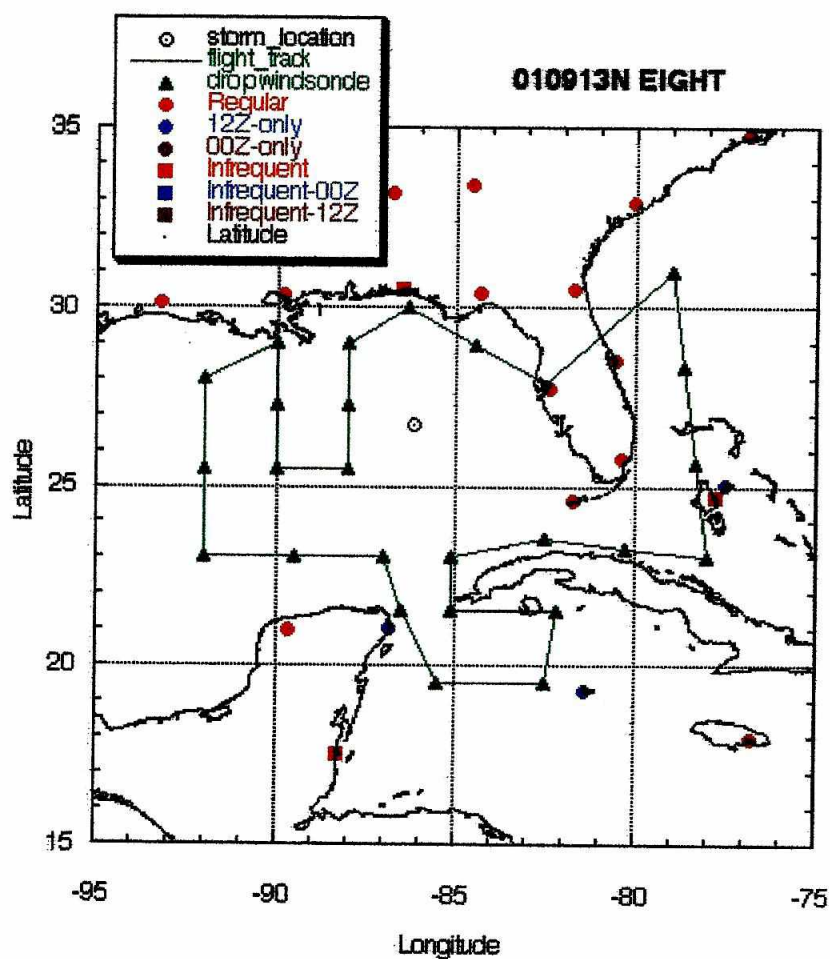
Both dewpoint sensors were balanced between 1820Z - 1825Z.

No dynamic corrections were applied to the measured static and dynamic pressures. Thus wind direction and wind speed may not be representative of actual flight level conditions.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1011.0mb	1013.6mb
Corrected tower pressure	1011.3mb	1015.0mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073





\$ 21⁶ 38

Sir Aberson
Jason Dunion

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: EIGHT/SYNOPTIC

NOAA/Hurricane Research Division Wednesday, September 12, 2001 6:48:13 PM
 Aircraft: N49RF Proposed takeoff: 13/1730Z

DROP LOCATIONS

#	LAT (d m)	Lon (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	31 00	79 00		0:37
2	28 19	78 40		0:59
3	25 40	78 19		1:21
4	23 00	78 00		1:43
5	23 15	80 15		2:00
6	23 30	82 30		2:18
7	23 00	85 05		2:39
8	21 30	85 05		2:51
9	21 30	82 09		3:15
10	19 30	82 30		3:31
11	19 30	85 30		3:55
12	21 30	86 30		4:13
13	23 00	87 00		4:26
14	23 00	89 30		4:46
15	23 00	92 00		5:05
16	25 30	92 00		5:26
17	20 00	92 00		5:46
18	29 00	90 00		6:04
19	27 15	90 00		6:18
20	25 30	90 00		6:32
21	25 30	88 00		6:48
22	27 15	88 00		7:02
23	29 00	88 00		7:16
24	30 00	86 20		7:31
25	28 55	84 26		7:48

1st OB out 1844Z
 2nd OB out 1910Z
 3rd OB out 1937Z
 1825Z

13th out

4 retrains

2521

84°24'

1500

1000 mil

44 km SE

212 25.5 84.3

062 26.1 83.6

14/182 27.0 82.8

15/062 28.0 82.0 60KTS

15/182 29.0 81.0

16/182 31.0 78.0

#14, #16

retrains
 result
 0038Z

0010Z

25°26'

84°08'

997

50-52

21

20 4 times

19 4 times

18 no

30

24
 24
 48
 32
 80

5
 75°F

15
 15
 30
 32
 62
 2
 59

28 0146Z

6-75

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurr 01 Project No. 106 Flight No. 6 Flight ID: 010913n
 SED Crew: Lino, Hornbrook, McNamara Mission: TD 8
 Pre-Flight: 1630 Z Take-Off: 1739 Z Landing: 0204 Z

SYSTEM				Pre-Flight Check	In-Flight	Post-Flight Check	
N A V	IRS #1			RJM			
	IRS #2			RJM			
	GPS Honeywell #1			RJM			
	GPS Honeywell #2			RJM			
	GPS Collins			RJM		Off? ☒	
	Nose Radar - Collins					Off? ☒	
T E M P / D P		Time	Temp °C	RJM ↑ ↓ RJM		Time	Temp °C
	Temp #1	1643	28.5		0236	22.3	
	Temp #2	1643	28.5			23.0	
	Temp #3	1643	28.9			22.6	
	Temp #4	1643	28.2			22.3	
	DP Left	1644	20.1			15.8	
	DP Right	1644	22.0			17.8	
	CRYO	-	N/I				
P R E S S	Attack Angle (ADCAOA)			RJM			
	Angle of Attack (APx, DAPx)			RJM			
	Sideslip (BPx, DBPx)			RJM			
	Static Pressure (PS1M, PS2M)			RJM			
	Dynamic Pressure (QCxM)			RJM			
	Radome Press. Lines			Checked? ☒ Date: 9/12/01			
Mission Pitot/Static Iso. Valves			Valves: open ☐ closed ☐				
S Y S T E M	Satcom (Flight Phone) ☒					Off CB? ☐	
	Call COMSAT? ☒ (*292#)			CB's Checked? ☒			
	FCU/UPS/CB			CH		UPS off? ☐	
	MADS (WINDS/DISCWIN)			CH		# DATs: 1	
	Printer 1 (lp1)			Power? ☒ Paper? ☒ RJM		Printer Power off? ☐	
	MADS Cal. Date: 7/6/01			QC time: 1720		QC time: 0206	
	HAPS System			Time set? ☒ HRD		# Msg.: # Fail:	
M I S C	AVAPS System			DL			
	Exterior Walk Around ☒						
Inspect DropSonde Chute Bolts			DL				
M I S C	Down Port Door			Open? ☒		Closed? ☒ N/A	
	AVAPS Sondes			# On Board: 150	# Dropped: 30	# Good: 25	
	Sci. Power Monitor			CH			
	APN-232 Altimeter						
Modem			Power On? ☒				

I	DAT Tape #1	On: 1720	Type: 60	Off: 0212:43
Comments:				
Sondes under RS - Screened a Fish line 20CA - 8-24-01 TL				

Please Note Any Discrepancies

[illegible]